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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09.939,209	08 24 2001	Pat Ressler Levitt	00-539-US	3394
7:	02.07 2003			
Frederick H. Colen REED SMITH LLP P.O. Box 488			EXAMINER	
			QIAN, CELINE X	
Pittsburgh, PA 15230-0488			ART UNIT	PAPER NUMBER
			1636	, \
			DATE MAILED: 02/07/2003	_

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		09/939,209	LEVITT ET AL	
	Office Action Summary	Examiner	Art Unit	
		Celine X Qian	1636	
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet w	ith the correspondence address	
THE - Exte after - If the - If NC - Failt - Any	ORTENED STATUTORY PERIOD FOR REI MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a poperiod for reply is specified above, the maximum statutory per uncertainty of the provided above, the maximum statutory per uncertainty of the provided above, the maximum statutory per uncertainty of the provided above, the maximum statutory per uncertainty of the provided above. The maximum statutory per uncertainty of the provided above, the maximum statutory per uncertainty of the provided above.	N. 1.136(a). In no event, however, may a preply within the statutory minimum of thir lod will apply and will expire SIX (6) MON tute, cause the application to become At	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
1)	Responsive to communication(s) filed on _	·		
2a) 🗌	This action is FINAL . 2b)[⊴	This action is non-final.		
3) 🗌 Disposit	Since this application is in condition for allo closed in accordance with the practice und ion of Claims			
	Claim(s) <u>1-45</u> is/are pending in the applicat	ion		
,_	4a) Of the above claim(s) is/are withd			
5)	Claim(s) is/are allowed.			
	Claim(s) is/are rejected.			
_	Claim(s) is/are objected to.			
8)[Claim(s) <u>1-45</u> are subject to restriction and/o	or election requirement.		
	The specification is objected to by the Exami	ner		
· · · · ·	The drawing(s) filed on is/are: a) ac		he Evaminer	
.0,	Applicant may not request that any objection to			
11)[The proposed drawing correction filed on			
	If approved, corrected drawings are required in			
12)	The oath or declaration is objected to by the	Examiner.		
Priority u	ınder 35 U.S.C. §§ 119 and 120			
13)	Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)[☐ All b)☐ Some * c)☐ None of:			
	1. Certified copies of the priority docume	ents have been received.		
	2. Certified copies of the priority docume	ents have been received in A	pplication No	
* 8	3. Copies of the certified copies of the prapplication from the International life the attached detailed Office action for a life.	Bureau (PCT Rule 17.2(a)).	· ·	
14) 🗌 A	cknowledgment is made of a claim for dome	stic priority under 35 U.S.C.	§ 119(e) (to a provisional application).	
)			
Attachment	c(s)			
2) 🔲 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)	
S. Patent and Tr	ademark Office			

Art Unit: 1636

DETAILED ACTION

Claims 1-45 are pending in the application.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-20 and 40-43, drawn to an isolated nucleic acid, a hybridization probe to the nucleic acid, a vector comprising said nucleic acid, and a host cell comprising said vector, classified in class 536, subclass 23.1, 24.31, class 435, subclass 320.1, 325.
- II. Claims 21-26, drawn to a method for diagnosing/determining susceptibility of schizophrenia by detecting a variation in the RGS4 gene, classified in class 435, subclass 440.
- III. Claims 27 and 28, drawn to a method for diagnosing/determining susceptibility of schizophrenia by determining whether there is reduced expression of RGS4 mRNA, classified in class 536, subclass 24.5.
- IV. Claims 29, 30, 31 and 32, drawn to a method for diagnosing/determining susceptibility of schizophrenia by determining whether there is reduced expression of RGS4 protein, classified in class 530, subclass 350.
- V. Claims 33-35, drawn to a method for treating schizophrenia by altering RGS4 protein levels, classified in class 530, subclass 351.
- VI. Claims 36 and 37, drawn to a kit for diagnosing schizophrenia in a patient comprising antibodies to RGS4 and a detector, classified in class 424, subclass 130.1.

Art Unit: 1636

VII. Claims 38 and 39, drawn to a kit for diagnosing schizophrenia comprising a detector of RGS4 transcript levels and a standard to ascertain altered levels of said transcript, classified in class 536, subclass 24.3.

VIII. Claims 44 and 45, drawn to a transgenic mouse comprising a RGS4 disruption in its genome, classified in class 800, subclass 18.

The inventions are distinct, each from the other for following reasons.

The inventions of Groups I, VI-VIII are patentably distinct from each other because the inventions are drawn to materially distinct compositions that are not directly related. The nucleic acid, the kit comprising antibodies, the kit comprising RGS4 detector and the transgenic mouse comprising a RGS4 disruption are chemically, biologically and functionally distinct from each other. Therefore, the invention of Groups I, VI-VIII are patentably distinct.

The inventions of Groups II-V are patentably distinct from each other because the inventions are drawn to methods that require different starting materials and modes of operation.

Each method requires distinct steps. Therefore, the inventions of Groups II-V are patentably distinct.

The inventions of Groups I, VI-VIII and II-V are patentably distinct from each other because the inventions are drawn to compositions and methods that are not directly related. The products of Groups I, VI-VIII can be used in methods that require different technical considerations and materially different reagents from the method of Groups II-V. The method of Group II-V can be practiced with products that have different chemical structures than the products of Groups I, VI-VIII. Therefore, the inventions of Groups I, VI-VIII and II-V are patentably distinct.

Art Unit: 1636

Groups I and II are comprised of multiple inventions which are the products or methods drawn to different and distinct sequences which do not render obvious each other and thus are patentably distinct. If any of Groups I and II are elected, applicants must elect a single invention which is the product or method drawn to one specific sequence, and one mutation variation to which the claims will be restricted. Note, this restriction to examination of a single sequence is due to the now very high and undue burden for examining more than one sequence which is caused by the continued exponential increase of size of the sequence databases to be searched for each sequence, resulting in a corresponding increase in computer search time and examiner time for reviewing the computer search results. Therefore, the limited resources of the Office no longer permit examination of more than one sequence in an application.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper. A search of the subject matter of one invention would not be coextensive with a search of the other invention, and therefore the search would be burdensome. Each invention is capable of supporting a separate patent.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Celine X Qian whose telephone number is 703-306-0283. The examiner can normally be reached on 9:00-5:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel Ph.D. can be reached on 703-305-1998. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-305-3014 for After Final communications.

Art Unit: 1636

Page 5

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Celine Qian, Ph.D. February 2, 2003

Ame-Marie Falk, PH.D.
PP:MARY EXAMINER